

Notice of Allowability

Application No.

09/987,703

Examiner

Raj K. Jain

Applicant(s)

LIM, BYUNG KEUN

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/21/06.
2. ☒ The allowed claim(s) is/are 1-4 and 6-14 Renumbered 1-13.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Fred Bailey on 18 December 2006.

Amend claims 8-11 as follows;

8. (Currently Amended) A mobile ~~terminal~~ communication system for multicasting/broadcasting IP data in a mobile communication system, comprising:
a packet data serving node (PDSN);
a mobile terminal, the mobile terminal ~~receives~~ receiving a multicast/broadcast packet, having multicasting/broadcasting identification header, transmitted from ~~higher~~ the packet data serving node (PDSN),
a base station controller/packet control function (BSC/PCF), and
a base station, wherein the multicast/broadcast is a multicast packet data that comprises a header information including QoS, multicast/broadcast type, multicast/broadcast group, and length information including body data of the PPP frame format and message body, and wherein the header information includes information for distinguishing at least a multicast message and a broadcast message.

9. (Currently Amended) The ~~mobile terminal~~ system of claim 8, wherein the PDSN transmits the multicast packet data to the BSC/PCF.

10. (Currently Amended) The ~~mobile terminal~~ system of claim 8, wherein the PDSN and a host add multicasting/broadcasting identification header for multicasting/broadcasting to a terminal receiving services under IMT-2000, PCS, and cellular systems.

11. (Currently Amended) The ~~mobile terminal~~ system of claim 8, wherein data in the received multicast/broadcast is transformed to multicast frame data, and adds IP packet header to the multicast frame data.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claims 1, 7, 8 and 14 are allowed. The prior art discloses a method for multicasting/broadcasting IP data in a mobile communication system, comprising transforming the multicast packet data to a PPP frame format having an identification header, wherein the identification header includes information for distinguishing at least

a multicast message and a broadcast message; transmitting multicast message from the PDSN to base station controller/packet control function.

The prior art however fails to disclose wherein the multicast packet data comprises a header information including QoS, multicast/broadcast type, multicast/broadcast group, and length information including body data of the PPP frame format and message body.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raj K. Jain whose telephone number is 571-272-3145. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RJ

December 18, 2006


CHI PHAM
SUPERVISORY PATENT EXAMINER

12/20/06